

Patent claims

1. A gas bag (5) for a car passenger-protecting system having a gas generator (20), in which at least part of the remaining gas bag envelope is turned back into an envelope section of the gas bag envelope,
characterized in that
the envelope section (10) forms a narrow filling channel [15] which extends along a predefined deployment direction (17) and to which compressed gas can be applied by the gas generator (20).
2. The gas bag as claimed in claim 1, characterized in that the filling channel (15) can be connected directly to the gas generator (20).
3. The gas bag as claimed in one of the preceding claims, characterized in that the gas generator (20) is connected to one end of the filling channel and the part of the gas bag envelope that is turned back is located immediately in front of the connection point of the gas generator.
4. The gas bag as claimed in one of the preceding claims 1 to 3, characterized in that the filling channel (15) forms a side pocket (47) which is located laterally beside the connection point (25) of the gas generator.
5. The gas bag as claimed in one of the preceding claims, characterized in that the part of the gas bag envelope that is turned back is stuffed into the filling channel unfolded.
6. The gas bag as claimed in one of the preceding claims 1 to 4, characterized in that the part of the gas bag envelope that is turned back is at


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least partly zigzag-folded, pleated and/or rolled together.

- 5 7. The gas bag as claimed in claim 6, characterized in that the part of the gas bag envelope that is turned back is zigzag-folded,

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- 5 pleated and/or rolled together at the end (35) of
the envelope facing away from the filling channel
(15), the zigzag-folded, pleated and/or rolled
together envelope pack (40) is folded together at
least once, forming an envelope pack (45) with a
U-shaped cross section, and the U-shaped envelope
pack (45) is pushed into the filling channel (15).
- 10 8. The gas bag as claimed in one of the preceding
claims, characterized in that the gas bag has two
or more gas bag chambers.
- 15 9. The gas bag as claimed in claim 8, characterized
in that the gas bag has at least one inner gas bag
chamber, which is surrounded by an outer gas bag
chamber.
- 20 10. The gas bag as claimed in one of the preceding
claims, characterized in that the filling channel
is formed laterally, at least partly, by a seam in
the gasbag envelope.
- 25 11. The gas bag as claimed in one of the preceding
claims, characterized in that the filling channel
(15) is formed, at least partly, by the side walls
of the associated gas bag chambers.
- 30 12. The gas bag as claimed in one of the preceding
claims, characterized in that the filling channel
is formed, at least partly, by a diffuser layer
fitted in the gas bag and/or by retaining straps.
- 35 13. The gas bag as claimed in one of the preceding
claims, characterized in that the filling channel
is at least partly tubular.

14. The gas bag as claimed in claim 13, characterized in that the cross section of the filling channel widens like a funnel at its open channel end.
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15. The gas bag as claimed in one of the preceding claims, characterized in that the gas bag is a pelvis-thorax gas bag.
- 10 16. The gas bag as claimed in claim 15, characterized in that the pelvis region of the gas bag is turned back into the filling channel.
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17. The gas bag as claimed in one of the preceding claims 15 or 16, characterized in that the gas bag is accommodated in a backrest of a motor vehicle seat in such a way that the predefined deployment direction extends parallel to the backrest of the motor vehicle seat, in the direction of the vehicle seat area.
18. The gas bag as claimed in one of the preceding claims, characterized in that the gas bag is a head-thorax gas bag.
19. The gas bag as claimed in claim 18, characterized in that the head region of the gas bag is turned back into the filling channel.
20. The gas bag as claimed in one of the preceding claims 18 or 19, characterized in that the gas bag is accommodated in a backrest of a motor vehicle seat in such a way that the predefined deployment direction extends parallel to the backrest of the motor vehicle seat, in the direction of the vehicle roof.
21. The gas bag as claimed in one of the preceding claims 1 to 14, characterized in that the gas bag is a head-thorax-pelvis gas bag.
22. The gas bag as claimed in claim 21, characterized in that the head region and/or the pelvis region of the gas bag is in each case turned back into a filling channel.
23. The gas bag as claimed in claim 22, characterized in that the gas bag is fitted in a backrest of a motor vehicle seat in such a way that the predefined deployment direction of the filling channel for the head region extends parallel to

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5 the backrest of the motor vehicle seat, in the direction of the vehicle roof, and/or the predefined deployment direction of the filling channel for the pelvis region extends parallel to the backrest of the motor vehicle seat, in the direction of the vehicle seat area.

- 10 24. A method for folding a gas bag, in which a part of the gas bag envelope is inserted into a narrow filling channel, formed by part of the gas bag envelope, which extends along a predefined deployment direction.

25. The method has claimed in claim 24, characterized in that the part of the gas bag envelope that is turned back is stuffed into the filling channel unfolded.

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26. The method as claimed in claim 24, characterized in that the part of the gas bag envelope that is turned back is at least partly zigzag-folded, pleated and/or rolled together.

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27. The method as claimed in claim 26, characterized in that the region that is turned back is firstly zigzag-folded, pleated and/or rolled together at the end of the envelope facing away from the filling channel, the zigzag-folded, pleated and/or rolled together envelope pack (40) is folded together at least once, forming an envelope pack (45) with a U-shaped cross section, and the U-shaped envelope pack (45) is pushed into the filling channel (15).

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